



PCT

RAW SEQUENCE LISTING

DATE: 01/29/2003

PATENT APPLICATION: US/10/030,613

TIME: 10:48:24

Input Set : A:\ippf0711pct.app.txt

Output Set: N:\CRF4\01292003\J030613.raw

4 <110> APPLICANT: INCYTE GENOMICS, INC.
 5 TANG, Y. Tom
 6 YUE, Henry
 8 <120> TITLE OF INVENTION: HUMAN PROTEINS INVOLVED IN DETOXIFICATION
 10 <130> FILE REFERENCE: PF-0711 PCT
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/030,613
 C--> 13 <141> CURRENT FILING DATE: 2003-01-29
 15 <150> PRIOR APPLICATION NUMBER: 60/142,678
 16 <151> PRIOR FILING DATE: 1999-07-07
 18 <160> NUMBER OF SEQ ID NOS: 4
 19 <170> SOFTWARE: PERL Program
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 234
 23 <212> TYPE: PRT
 24 <213> ORGANISM: Homo sapiens
 26 <220> FEATURE:
 27 <221> NAME/KEY: misc_feature
 28 <223> OTHER INFORMATION: Incyte ID No: 3751586CD1
 30 <400> SEQUENCE: 1
 31 Met Arg Ser Pro Gly Gln Gln Gly His Val Pro Glu Asp Gly Gly
 32 1 5 10 15
 33 Leu Phe Leu Leu Cys Cys Ile Asp Arg Asp Trp Ala Val Thr Arg
 34 20 25 30
 35 Cys Phe Ala Glu Glu Ala Phe Gln Ala Ile Thr Asp Phe Asn Asp
 36 35 40 45
 37 Leu Pro Asn Ser Leu Phe Ala Cys Asn Val His Gln Ser Val Phe
 38 50 55 60
 39 Glu Gly Glu Glu Ser Lys Glu Lys Phe Glu Gly Leu Phe Arg Thr
 40 65 70 75
 41 Tyr Asp Asp Cys Val Thr Phe Gln Leu Phe Lys Ser Phe Arg Arg
 42 80 85 90
 43 Val Arg Ile Asn Phe Ser Asn Pro Lys Ser Ala Ala Arg Ala Arg
 44 95 100 105
 45 Ile Glu Leu His Glu Thr Gln Phe Arg Gly Lys Lys Leu Lys Leu
 46 110 115 120
 47 Tyr Phe Ala Gln Val Gln Thr Pro Glu Thr Asp Gly Asp Lys Leu
 48 125 130 135
 49 His Leu Ala Pro Pro Gln Pro Ala Lys Gln Phe Leu Ile Ser Pro
 50 140 145 150
 51 Pro Ser Ser Pro Pro Val Gly Trp Gln Pro Ile Asn Asp Ala Thr
 52 155 160 165
 53 Pro Val Leu Asn Tyr Asp Leu Leu Tyr Ala Val Ala Lys Leu Gly
 54 170 175 180

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/030,613

DATE: 01/29/2003

TIME: 10:48:24

Input Set : A:\ippf0711pct.app.txt

Output Set: N:\CRF4\01292003\J030613.raw

```

55 Pro Gly Glu Lys Tyr Glu Leu His Ala Gly Thr Glu Ser Thr Pro
56                               185                      190                      195
57 Ser Val Val Val His Val Cys Asp Ser Asp Ile Glu Glu Glu Glu
58                               200                      205                      210
59 Asp Pro Lys Thr Ser Pro Lys Pro Lys Ile Ile Gln Thr Arg Arg
60                               215                      220                      225
61 Pro Gly Leu Pro Pro Ser Val Ser Asn
62                               230
64 <210> SEQ ID NO: 2
65 <211> LENGTH: 388
66 <212> TYPE: PRT
67 <213> ORGANISM: Homo sapiens
69 <220> FEATURE:
70 <221> NAME/KEY: misc_feature
71 <223> OTHER INFORMATION: Incyte ID No: 4369745CD1
73 <400> SEQUENCE: 2
74 Met Lys Ile Arg Thr Glu Ala Pro Gly Asn Leu Arg Leu Tyr Ser
75   1                               5                      10                      15
76 Gly Ser Pro Thr Arg Ser Glu Lys Glu Gln Val Ser Ile Ser Ser
77                               20                      25                      30
78 Phe Tyr Tyr Lys Glu Arg Lys Ser Arg Arg Trp Lys Ser Lys Arg
79                               35                      40                      45
80 Glu Gly Ser Asp Ser Gly Asn Arg Gln Ile Lys Ala Ala Gly Lys
81                               50                      55                      60
82 Val Ile Ile Gln Asp Ile Ala Cys Leu Leu Pro Val His Lys Ser
83                               65                      70                      75
84 Leu Gly Glu Leu Tyr Ile Leu Asn Val Asn Asp Ile Gln Glu Thr
85                               80                      85                      90
86 Cys Gln Lys Asn Ala Ala Ser Ala Leu Leu Val Gly Arg Lys Asp
87                               95                      100                     105
88 Leu Val Gln Val Trp Ser Leu Ala Thr Val Ala Thr Asp Leu Cys
89                               110                     115                     120
90 Leu Gly Pro Lys Ser Asp Pro Asp Leu Glu Thr Pro Trp Ala Arg
91                               125                     130                     135
92 His Pro Phe Gly Arg Gln Leu Leu Glu Ser Leu Leu Ala His Tyr
93                               140                     145                     150
94 Cys Arg Leu Arg Asp Val Gln Thr Leu Ala Met Leu Cys Ser Val
95                               155                     160                     165
96 Phe Glu Ala Gln Ser Arg Pro Gln Gly Leu Pro Asn Pro Phe Gly
97                               170                     175                     180
98 Pro Phe Pro Asn Arg Ser Ser Asn Leu Val Val Ser His Ser Arg
99                               185                     190                     195
100 Tyr Pro Ser Phe Thr Ser Ser Gly Ser Cys Ser Ser Met Ser Asp
101                               200                     205                     210
102 Pro Gly Leu Asn Thr Gly Gly Trp Asn Ile Ala Gly Arg Glu Ala
103                               215                     220                     225
104 Glu His Leu Ser Ser Pro Trp Gly Glu Ser Ser Pro Glu Glu Leu
105                               230                     235                     240
106 Arg Phe Gly Ser Leu Thr Tyr Ser Asp Pro Arg Glu Arg Glu Arg

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/030,613

DATE: 01/29/2003

TIME: 10:48:24

Input Set : A:\ippf0711pct.app.txt

Output Set: N:\CRF4\01292003\J030613.raw

```

107          245          250          255
108 Asp Gln His Asp Lys Asn Lys Arg Leu Leu Asp Pro Ala Asn Thr
109          260          265          270
110 Gln Gln Phe Asp Asp Phe Lys Lys Cys Tyr Gly Glu Ile Leu Tyr
111          275          280          285
112 Arg Trp Gly Leu Arg Glu Lys Arg Ala Glu Val Leu Lys Phe Val
113          290          295          300
114 Ser Cys Pro Pro Asp Pro His Lys Gly Ile Glu Phe Gly Val Tyr
115          305          310          315
116 Cys Ser His Cys Arg Ser Glu Val Arg Gly Thr Gln Cys Ala Ile
117          320          325          330
118 Cys Lys Gly Phe Thr Phe Gln Cys Ala Ile Cys His Val Ala Val
119          335          340          345
120 Arg Gly Ser Ser Asn Phe Cys Leu Thr Cys Gly His Gly Gly His
121          350          355          360
122 Thr Ser His Met Met Glu Trp Phe Arg Thr Gln Glu Val Cys Pro
123          365          370          375
124 Thr Gly Cys Gly Cys His Cys Leu Leu Glu Ser Thr Phe
125          380          385

```

127 <210> SEQ ID NO: 3

128 <211> LENGTH: 934

129 <212> TYPE: DNA

130 <213> ORGANISM: Homo sapiens

132 <220> FEATURE:

133 <221> NAME/KEY: misc_feature

134 <223> OTHER INFORMATION: Incyte ID No: 3751586CB1

136 <400> SEQUENCE: 3

```

137 agaatcatatc ttcatcgga ttaggagccc agggcagcag ggacacgtcc ctgaagatgg 60
138 aggacttttc ttactgtgct gcatagacag ggactgggct gtcactcggt gttttgcaga 120
139 agaagccttt caagcaatca ctgacttcaa tgacctcccc aactcgttgt ttgcgtgcaa 180
140 tgttcaccag tcagtgtttg aaggagaaga gagcaaggaa aaatttgagg gactgtttcg 240
141 gacttatgat gactgtgtga cgttccagct atttaagagt ttcagacgtg tccgtataaa 300
142 cttcagcaat cctaaatctg cagcccagagc taggatagag cttcatgaaa cccaattcag 360
143 agggaaaaaa ttaaagctct actttgcaca ggttcagact ccagagacag atggagacaa 420
144 actgcacttg gctccacccc agcctgccaa acagtttctc atctcgcccc cttcctcccc 480
145 acctgttggc tggcagccca tcaacgatgc cagccagtc ctcaactatg acctcctcta 540
146 tgctgtggcc aaactaggac caggagagaa gtatgagctc catgcaggga ctgagtccac 600
147 cccaagtgtc gtctgtcacg tgtgcgacag tgacatagag gaagaagagg acccaaagac 660
148 ttcccaaaag ccaaaaatca tccaaactcg gcgtcctggc ctgccaccct ccgtgtccaa 720
149 ctgagctgcc tgctccttct cgataatagc cgtctcctct ttatcatgct ttttccccct 780
150 gttgtttgtc aaaaaaaatt gcctttaaat tcctgggtgt ttggttgttt gagattcctt 840
151 ccttgttatc aagcctctcg gacaaaaggg ctaggaaaag gtgatatgtc tcctgatcat 900
152 atcataccca ttaagtataa cccattattt agaa 934

```

154 <210> SEQ ID NO: 4

155 <211> LENGTH: 1890

156 <212> TYPE: DNA

157 <213> ORGANISM: Homo sapiens

159 <220> FEATURE:

160 <221> NAME/KEY: misc_feature

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/030,613

DATE: 01/29/2003

TIME: 10:48:24

Input Set : A:\ippf0711pct.app.txt

Output Set: N:\CRF4\01292003\J030613.raw

161 <223> OTHER INFORMATION: Incyte ID No: 4369745CB1
163 <400> SEQUENCE: 4
164 ctcccacaga gctactccg agatctctct cagccttgte tgcttatcac actggcttga 60
165 tcgcgcccac gaagatccgc acagaggccc ctgggaacct tcgtttatac agtgggagcc 120
166 ccactcgag cgagaaagag caggtctcca tcagctcctt ctactacaag gagcggaat 180
167 caagacgatg gaaaagtaag cgtgaggat cagactctgg caatcgacag atcaaggctg 240
168 ctgggaaagt catcatccag gatattgctt gcctcctgcc tgttcacaaa tcgctgggag 300
169 agctgtacat attgaatgtg aatgatattc aggaacatg tcagaagaat gccgcctctg 360
170 ccttgctcgt tggagaaaag gatcttgctc aggtttggtc gctggctacg gtagctacag 420
171 atctttgcct tgggtccgaaa tctgaccag atttggaac accctgggct cgacatccat 480
172 ttgggcggca gctgctggag tccctggttg ctcactattg ccggctccgg gatgttcaga 540
173 cactggcgat gctctgtagc gtgtttgaag ccagctctcg gcctcagggg ctaccaaacc 600
174 cctttgggcc ttttccaaac cgttcttcta atcttggtg gtcccatagt cgatatccta 660
175 gctttacctc ttctggttcc tgctccagta tgtcagacc agggctcaac actggcggct 720
176 ggaacatagc gggagagag gcagagcact tgtcctcccc ttggggagaa tcctcaccag 780
177 aagagctccg ctttgggagt ctgacctaca gtgatcccc tgagcgagaa cgtgaccagc 840
178 atgataaaaa taaaaggctc ctggaccccc ccaataccca gcaatttgat gactttaaga 900
179 aatgctatgg ggaatcctc taccgttggg gtctgagaga gaagcgagct gaagtgttga 960
180 agtttgtctc ctgtcctcct gacctcaca aaggatcga gttcggcgtg tactgcagcc 1020
181 actgcgggag tgaggtccgt ggcacgcagt gtgccatctg caaaggcttc acgttccagt 1080
182 gtgocatctg tcacgtggct gtgcggggat cgtccaattt ctgcctgacc tgtgggcacg 1140
183 gtggccacac cagccacatg atggagtggg ttcggaccca ggaggtgtgt cccaccgggt 1200
184 gtgggtgcca ctgcctgctt gaaagcactt tctgaaccta cagaagttgg gtattgtctg 1260
185 aaatcccaga ggaccataa gtgccggtga caagctgtct gtcaggggag aggtccaga 1320
186 acctgggttc gtccccagt agaccggagg atgatcccc aaggactgcg cagcatcagc 1380
187 tcttggtggg cctctgcctt ctcttctgtt tggccacctg gtgtggatgt cactgtgtga 1440
188 agataaggac agaagtgcag agctgcgctt tgtgtgttgt ctatgtcggc tgagctacca 1500
189 aggtggaagt tttcatggag aaaagcacct ggctccagg ccagtgttac agtgttacc 1560
190 tgtaaggtgt tagcctaaa ccaccgagca gcgttctctt gatgccagt cagagaccag 1620
191 agtcagatgc ccgaggacag tgggtaggaa tttcatcaac aaatggacct atggcatcat 1680
192 ggctttagaa gctggtacat ttactgagct gatggacagt ggccttctaa aatatgacac 1740
193 ttaaattgta aatatgcact gtacttaagg attcttaaga tgtatttttt tgttatttct 1800
194 cctccagctg ctatcccttg gctaataaaa ttctagtaat ttgaaaaaaa aaaaaaagag 1860
195 agaaagttaa acaacaaaaa aaaaaaaaaa 1890

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/030,613

DATE: 01/29/2003

TIME: 10:48:25

Input Set : A:\ippf0711pct.app.txt

Output Set: N:\CRF4\01292003\J030613.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date